



Idea: Virtual EECS Academic Advisor

- Course search requires referencing multiple sources
- Course selection is demanding, difficult, and prone to error
- Advising appointments are difficult to schedule

- Allow intuitively and natural interactions with virtual academic advisor
- Perform course search and course information retrieval
- Report personalized graduation progress and requirements

hello

Hello!

I've heard 485 is fun, what is the name of the class?

EECS 485: Web Systems

Who is teaching it next semester?

The primary instructor for EECS 485 is John Sidney Kloosterman

Cool, can you tell me the median of the class? is it hard?

According to Atlas, EECS 485 has a median grade of B+. 24% of past students perceived the workload for this course as heavier than other courses.

Good to know. When is it please?

EECS 485 Section 002 is from 4:30PM to 6:00PM on Tuesday and Thursday.
EECS 485 Section 001 is from 1:30PM to 3:00PM on Tuesday and Thursday.
EECS 485 Section 003 is from 6:00PM to 7:30PM on Tuesday and Thursday.

I want an upper level cs course on monday

I found EECS 427 Section 001, EECS 482 Section 001, EECS 388 Section 002 matching your description. In fact, I found too many courses. Try to narrow down the search.

what core courses do I still
need to take to graduate

You finished all your core
CS classes.

wait..what MDE course did I take

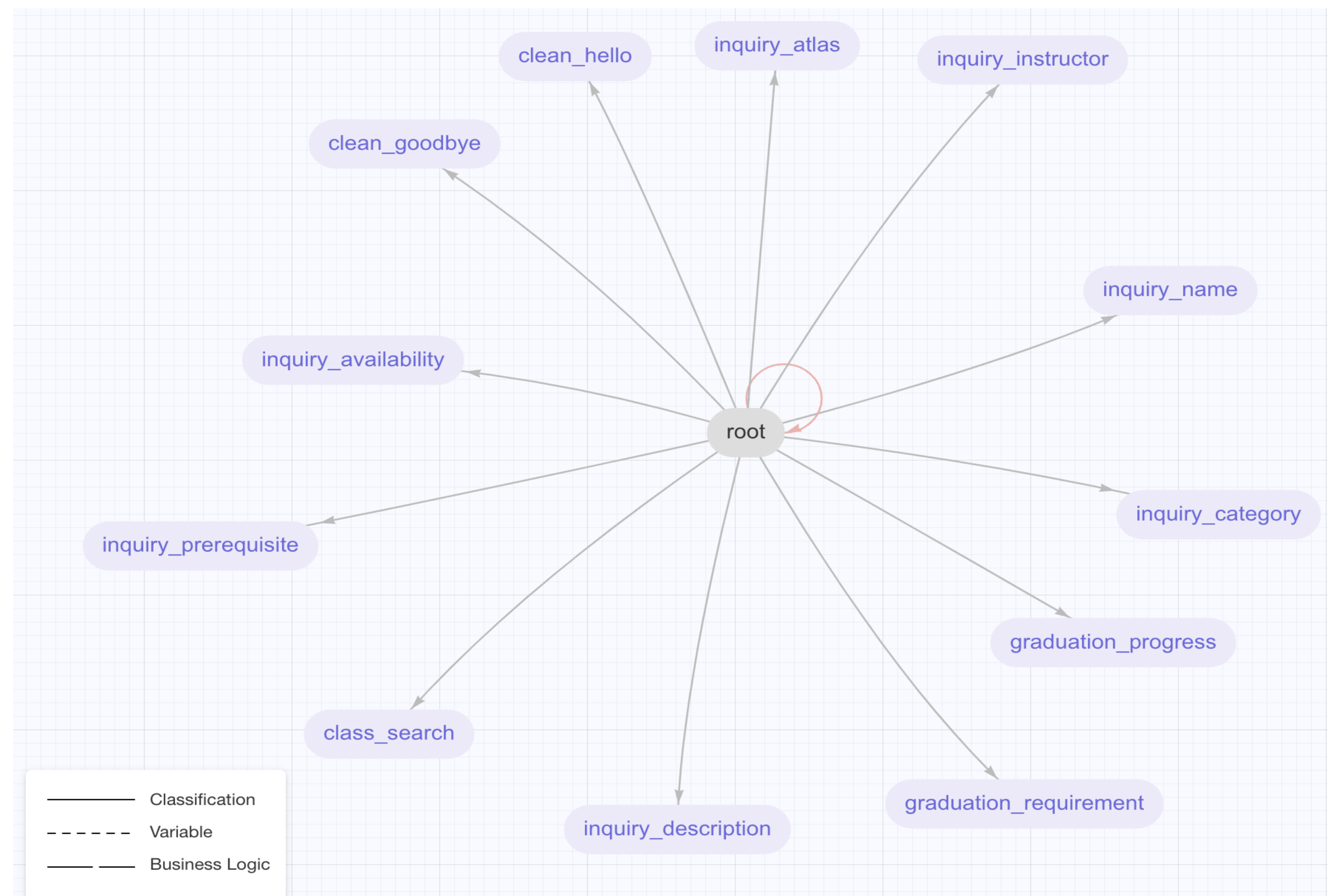
Your MDE is FA 2019 EECS
498 Special Topics
(Conversational AI) 4.00

I felt like taking EECS 485 next semester...I asked AI advisor about it.

I looked at my calendar and found out I had nothing to do on Monday, so I would like to know which upper level courses are on Monday.

Then I realized I was about to graduate. I needed to check my graduation progress as well 😊

Solution



- `class_search` handles all search-related questions and can extract multiple criteria from complex queries
- `graduation_requirement` and `graduation_progress` inquire about graduation requirements fulfilled, in progress, and to be completed. Classifier is used to distinguish inquiries about past or future
- Each type of inquiry about class info is classified into its own corresponding intention

- LSA course guide & <https://atlas.ai.umich.edu/>

Course Title	Instructor	Day	Time	Location	...
EECS 388	Peter Honeyman	TuTh	1:30-3:00 pm	BBB 1970	...

Name	Major	Year	Courses Taken
Kevin Leach	Computer Science	Senior	EECS 498, EECS 388, ...

- Users can establish their profile easily through uploading their transcript to the virtual academic advisor
- Simplifying user profile input allows personalized graduation progress and course recommendations

- The conversational AI advisor can help students navigate course search in a natural and intuitive way
- The system can serve as complement to the EECS Advising Office and ease the demand